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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/778,236	02/06/2001	Alan R. Smith	STL920000102US1	4245
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INTERNATIONAL BUSINESS MACHINES CORP			TANG, KENNETH	
IP LAW 555 BAILEY	AVENUE, J46/G4		ART UNIT	PAPER NUMBER
SAN JOSE, C	A 95141		2127	
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Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	1			
Office Action Summary	09/778,236	SMITH, ALAN R.	m			
, Onice Action Summary	Examiner	Art Unit	·			
The MAILING DATE of this communication app	Kenneth Tang	with the correspondence address				
Period for Reply	ears on the cover sheet	with the correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may within the statutory minimum of vill apply and will expire SIX (6) M cause the application to become	a reply be timely filed hirty (30) days will be considered timely. ONTHS from the mailing date of this communication ABANDONED (35 U.S.C. § 133).	n.			
Status						
Responsive to communication(s) filed on <u>26 Ag</u> This action is FINAL . 2b)⊠ This Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal m		6			
Disposition of Claims						
4) ⊠ Claim(s) <u>1-48</u> is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) <u>1-48</u> is/are rejected. 7) ⊠ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/o	wn from consideration.					
Application Papers						
9) The specification is objected to by the Examine 10) The drawing(s) filed on <u>06 February 2001</u> is/are Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex	e: a) accepted or b) of accepted or b) of accepted or b) of accepted in abection is required if the draw	/ance. See 37 CFR 1.85(a). ng(s) is objected to. See 37 CFR 1.121(d) .			
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in rity documents have be u (PCT Rule 17.2(a)).	n Application No en received in this National Stage				
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 2/6/01.	Paper I	w Summary (PTO-413) lo(s)/Mail Date of Informal Patent Application (PTO-152) 				

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DETAILED ACTION

1. Claims 1-48 are presented for examination.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

- 2. Claims 1-47 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
 - a. In claims 1, 20, and 38, the term "actual PCB" is indefinite because it is not made explicitly clear in the claim language the difference between a "PCB" and an "actual PCB."
 - b. In claims 1-3, 6-22, and 25-44, Applicant is required to clearly specify all the abbreviations of PCB, IMS, DEDB, HDAM, HIDAM, BMP, DLI, DBB, MPP, and IFP.
 - c. In claims 9-10 and 13, it is not made explicitly clear of their dependencies. For example, in claim 9, it is not made explicitly clear whether it depends on claim 8 or depends on claim 1. Claims 10 and 13 are rejected for the same reason.
 - d. In claim 19, the use of the word "characteristics" (line 5) is inappropriate since 35 USC § 112, second paragraph, requires the claim to particularly point out and distinctly claim the invention, not merely its characteristics. Furthermore, if this word is eliminated, then the remaining format of the claim should be modified in order to reflect this correction.

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e. Claim 22 recites the limitation "the type HDAM" (1st line). There is insufficient antecedent basis for this limitation in the claim.

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f. Claim 42 is rejected for the same reasons as stated in the rejection of claim 19 above.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1-16, 19-35, 38-45, and 48 are rejected under 35 U.S.C. 103(a) as being unpatentable over Applicant's Admitted Prior Art in the Specification (hereinafter AAP) in view of Bauer et al. (hereinafter Bauer) (US 5,758,333).
- 4. As to claim 1, AAP teaches a method for performing on a computer system one or more form independent application program operations on at least one IMS resource comprising:
- (a) at least one IMS resource exclusive of predetermined knowledge pertaining to an IMS construct form (page 6, lines 4-10), and
- (b) locating/utilizing and performing said one or more application program operations on said at least one IMS resource (page 6, lines 4-10).
- 5. AAP fails to explicitly teach performing the previously stated limitations with an actual PCB (data control block) performing one or more form independent application program

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operations. However, Bauer teaches a data management system performing independent application program operations using pointers to data blocks (col. 7, lines 10-20). It would have been obvious to one of ordinary skill in the art at the time the invention was made to include the feature of having an actual PCB (data control block) performing one or more form independent application program operations because it offers more flexibility and program operations can perform with its own individual way of doing things. Any changes to the logical data structure will have no effect on the applications (col. 5, lines 8-22).

- 6. As to claim 2, AAP teaches wherein said IMS resource is a database (page 1, lines 19-21).
- As to claim 3, AAP in view of Bauer fails to explicitly teach wherein said database is of a type selected from the group consisting of DEDB, HDAM and HIDAM. However, it would have been obvious to one of ordinary skill in the art at the time the invention was made to include the feature of wherein said database is of a type selected from the group consisting of DEDB, HDAM and HIDAM because it would increase the flexibility of the system by being able to choose from various different types rather than operating only on one type.
- 8. As to claim 4, AAP teaches wherein said application program operations include unloading said database (page 2, lines 14-16).

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- 9. As to claim 5, AAP teaches wherein said application program operations include loading said database (page 2, lines 14-16).
- 10. As to claim 6, AAP teaches wherein said IMS construct form depends from the choice of programming language used to generate a PSB (page 4, lines 3-11).
- 11. As to claim 7, AAP teaches wherein said IMS construct form depends from the order or PCBs associated with said PSB (page 4, lines 5-8).
- 12. As to claim 8, it is rejected for the same reasons as stated in the rejection of claim 3.
- 13. As to claim 9, it is rejected for the same reasons as stated in the rejection of claim 1. In addition, locating an I/O PCB is done before it is utilized.
- 14. As to claim 10, it is rejected for the same reasons as stated in the rejection of claim 9.
- 15. As to claim 11, AAP teaches wherein said PSB is associated with a language selected from the group consisting of COBOL, Assembly Language, PL/I, PASCAL, and C (page 2, 1st paragraph).
- 16. As to claim 12, AAP teaches wherein said IMS construct form additionally depends from the quantity of PCBs associated with said PSB (page 4, lines 5-8).

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- 17. As to claim 13, Bauer teaches wherein step (b) of claim I comprises utilizing said I/O PCB to perform checkpoint processing (col. 7, lines 1-7, col. 5, lines 8-21 and col. 7, lines 10-20).
- 18. As to claim 14, Bauer teaches wherein step (a) comprises the steps of:
 - (a1) locating a first candidate PCB (col. 7, lines 10-20),
 - (a2) determining if said first candidate PCB is said actual PCB (col. 7, lines 10-20). and
- (a3) if said first candidate PCB is not said actual PCB, utilizing said first candidate PCB as a pointer to locate said actual PCB (col. 7, lines 10-20).
- 19. As to claim 15, AAP fails to explicitly teach wherein said determining step comprises verifying that a name field of said first candidate PCB consists of only printable characters.

 However, it would be obvious to one of ordinary skill in the art to verify that a name field of said first candidate PCB consists of only printable characters because names are consisted of only printable characters. Verifying and checking for this will decrease errors.
- 20. As to claim 16, Bauer teaches wherein said locating step comprises the steps of:
 - (al.l) utilizing a register to access a program save area (col. 7, lines 10-20),
- (a1.2) utilizing an HSA pointer from said program save area to access a calling program's save area (col. 7, lines 10-20),

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(a1.3) utilizing a saved register I from said calling program's save area to access a parameter list (col. 7, lines 10-20), and

- (a1.4) utilizing a parameter list entry from said parameter list to access said first candidate PCB (col. 7, lines 10-20).
- As to claim 19, it is rejected for the same reasons as stated in the rejection of claim 1. In addition, Bauer teaches ensuring the existence of LMS constructs representing said at least one IMS database without regard for construct form characteristics (col. 5, lines 8-21 and col. 7, lines 10-20).
- 22. As to claim 20, it is rejected for the same reasons as stated in the rejection of claim 1.
- 23. As to claim 21, it is rejected for the same reasons as stated in the rejection of claim 2.
- 24. As to claim 22, it is rejected for the same reasons as stated in the rejection of claim 3.
- 25. As to claim 23, it is rejected for the same reasons as stated in the rejection of claim 4.
- 26. As to claim 24, it is rejected for the same reasons as stated in the rejection of claim 5.
- 27. As to claim 25, it is rejected for the same reasons as stated in the rejection of claim 6.

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- 28. As to claim 26, it is rejected for the same reasons as stated in the rejection of claim 7.
- 29. As to claim 27, it is rejected for the same reasons as stated in the rejection of claim 8.
- 30. As to claim 28, it is rejected for the same reasons as stated in the rejection of claim 9.
- 31. As to claim 29, it is rejected for the same reasons as stated in the rejection of claim 10.
- 32. As to claim 30, it is rejected for the same reasons as stated in the rejection of claim 11.
- 33. As to claim 31, it is rejected for the same reasons as stated in the rejection of claim 12.
- 34. As to claim 32, Bauer teaches wherein said computer program second instructions use said 1/O PCB to perform message queue processing (col. 7, lines 1-7).
- 35. As to claim 33, it is rejected for the same reasons as stated in the rejection of claim 14.
- 36. As to claim 34, it is rejected for the same reasons as stated in the rejection of claim 15.
- 37. As to claim 35, it is rejected for the same reasons as stated in the rejection of claim 16.
- 38. As to claim 36, it is rejected for the same reasons as stated in the rejection of claim 17.

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- 39. As to claim 37, it is rejected for the same reasons as stated in the rejection of claim 18.
- 40. As to claim 38, it is rejected for the same reasons as stated in the rejection of claim 1.
- 41. As to claim 39, it is rejected for the same reasons as stated in the rejection of claim 2.
- 42. As to claim 40, it is rejected for the same reasons as stated in the rejection of claims 6, 7 and 12.
- 43. As to claim 41, it is rejected for the same reasons as stated in the rejection of claim 9.
- 44. As to claim 42, it is rejected for the same reasons as stated in the rejection of claim 13.
- 45. As to claim 43, it is rejected for the same reasons as stated in the rejection of claim 14.
- 46. As to claim 44, it is rejected for the same reasons as stated in the rejection of claim 15.
- 47. As to claim 45, it is rejected for the same reasons as stated in the rejection of claim 16.
- 48. As to claim 46, it is rejected for the same reasons as stated in the rejection of claim 17.

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49. As to claim 47, it is rejected for the same reasons as stated in the rejection of claim 18.

50. As to claim 48, it is rejected for the same reasons as stated in the rejection of claim 11.

Allowable Subject Matter

51. Claims 17-18, 36-37, and 46-47 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kenneth Tang whose telephone number is (703) 305-5334. The examiner can normally be reached on 8:30AM - 7:00PM, Monday through Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Meng-Ai An can be reached on (703) 305-9678. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Kt 5/29/04

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